

Patent Claims

1. Device for adjusting the gap of a die arrangement using a thermopin, in which the thermopin is connected to the die lip (10) without any play and this play-free fixing of the thermopin (1) to the die lip (10) is effected by means of a clamp-type socket (7), where said clamp-type socket (7) engages on the one hand in a lip nose (11) and on the other hand in a groove (5) of the thermopin (1), where the lip nose (11) is an integral part of the die lip (10) and the clamp-type socket (7) has a bore (8) and the thermopin (1) has a bore (4) and a fixing means is passed through the bores (8) and (4).

2. Device according to Claim 1, characterized in that the lower end of the thermopin (2), which is in contact with the lip nose (11), tapers off, preferably terminating in a pointed tip (3).

3. Device according to one or more of Claims 1 and/or 2, characterized in that the bore (4) of the thermopin is provided between the tapered end and the groove (5) of the thermopin.

4. Device according to one or more of Claims 1 to 3, characterized in that a comb strip (14) is attached to the die lip (10), and the thermopins (1) are inserted between the individual teeth of the comb strip (14) on fixing to the die lip (10).

5. Device according to one or more of Claims 1 to 4, characterized in that the comb strip (14) is a separate part which is reversibly fixed to the die lip (10).

6. Device according to one or more of Claims 1 to 5, characterized in that the thermopin (1) is surrounded by a coil-type heating/cooling cartridge (19).

- 10 -

7. Device according to one or more of Claims 1 to 6, characterized in that the coil-type heating/cooling cartridge warms the thermopin via an electric, spirally open wound heating coil.

5 8. Device according to Claim 7, characterized in that the cooling of the thermopin (1) is effected by the inflow of a cooling medium into the free space between the heating coil and the jacket of the tubular heating element.

Sub A 10 9. Device according to one or more of Claims 1 to 8, characterized in that the thermopin has, at the upper end remote from the die lip, an external thread via which it is connected to a horizontal retention strip (18), the retention strip having a corresponding bore with internal thread.

15 10. Slot die, characterized in that at least one thermopin according to one of Claims 1 to 9 is fixed to the die lip (10) without any play.

11 Slot die according to Claim 10, characterized in that the lip nose (11) has slots, and the intervals between these slots correspond to the intervals 20 of the thermopins.

Sub A 3 12. Method for adjusting the gap of a slot die, characterized in that the change in the height of the die gap is carried out using thermopins according to one of Claims 1 to 9.

25 13. Device for adjusting the gap of a die arrangement by means of mechanically acting elements arranged over the width of the dies, characterized in that the intervals between the elements are not all identical, i.e. the elements are arranged at different intervals.

30 14. Device according to Claim 13, characterized in that the intervals between the elements in the edge region of the die are closer than the intervals between the elements in the central region of the die.

- 11 -

15. Device according to Claim 13, characterized in that the intervals between the elements in the central region of the die are closer than the intervals between the elements in the edge region of the die.